

=> file inpadoc		
COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	56.00	367.86
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.75	-2.25

FILE 'INPADOC' ENTERED AT 15:59:49 ON 07 FEB 2006
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FILE LAST UPDATED: 2 FEB 2006 <20060202/UP>
 2 FEB 2006 <20060202/UPLS>
 MOST RECENT INPADOC WEEK: 200605 <200605/EW>
 FILE COVERS 1968 TO DATE.

>>> FOR STATISTIC OF CURRENT WEEK'S NEW ENTRIES,
 ENTER HELP UPS <<<

>>> STATISTIC FOR UPDATES OF PUBLICATION/PATENT KIND CODES

A. SORTED BY COUNTRY:

<http://www.stn-international.de/stndatabases/details/inpadoc/fkd1>

B. SORTED BY DATE:

<http://www.stn-international.de/stndatabases/details/inpadoc/fkd2> <<<

>>> PLEASE BE AWARE OF THE NEW IPC REFORM IN 2006, SEE
http://www.stn-international.de/stndatabases/details/ipc_reform.html <<<

>>> NEW IPC8 SEARCH, DISPLAY, AND SELECT ENHANCEMENTS ! --> SEE NEWS <<<

>>> FOR CHANGES IN INPADOC SEE HELP CHANGE (last updated January 10, 2006) <<<

>>> THE PRODUCER (EPO) INFORMED US THAT THERE WILL BE A DELAY WITH
 WO DATA DUE TO INPUT FORMAT CHANGES AT THE WIPO <<<

=> s fr2746008/pn
 L22 1 FR2746008/PN

=> d 122 fam

L22 ANSWER 1 OF 1 INPADOC COPYRIGHT 2006 EPO on STN

PATENT FAMILY INFORMATION

AN 12941892 INPADOC

+-----PRAI-----+	+-----AI-----+
FR 1996-3418 A 19960314	FR 1996-3418 A 19960314
+-----AI-----+	+-----PI-----+
FR 1996-3418 A 19960314	FR 2746008 A1 19970919
	FR 2746008 B1 19980529

1 priority, 1 application, 2 publications

=> d 122 all

L22 ANSWER 1 OF 1 INPADOC COPYRIGHT 2006 EPO on STN

LEVEL 2

AN 12941892 INPADOC EW 199823 UP 20050414 UW 200515
 TI COMPOSITION A USAGE TOPIQUE ANTI-VIEILLISSEMENT.
 TL French
 DT Patent
 PIT FRB1 PATENT OF INVENTION (SECOND PUBLICATION)
 PI **FR 2746008 B1 19980529**

AI FR 1996-3418 A 19960314
PRAI FR 1996-3418 A 19960314 (EDPR 19990406)
ICM (6) A61K007-48
ICS (6) A61K031-375
ICI (6) A61K031-375, (6) A61K035:78, (6) A61K031:355
EPC A61K8/58C; A61K8/67H; A61K8/67L; A61K8/97; A61Q19/00; A61Q19/08

=> d his full

(FILE 'HOME' ENTERED AT 15:38:46 ON 07 FEB 2006)

FILE 'REGISTRY' ENTERED AT 15:39:01 ON 07 FEB 2006
L1 0 SEA (ASCORBYLMETHYLSILANOL PECTINATE)/CN
L2 1 SEA (VITAZYME C)/CN
D L2

FILE 'ADISCTI, ADISINSIGHT, ADISNEWS, BIOSIS, BIOTECHNO, CAPLUS, DDFB, DGENE, DISSABS, DRUGB, DRUGMONOG2, DRUGU, EMBAL, EMBASE, ES BIOBASE, IFIPAT, IMSDRUGNEWS, IMSPRODUCT, IPA, JICST-EPLUS, KOSMET, LIFESCI, MEDLINE, NAPRALERT, NLDB, NUTRACEUT, PASCAL, ...' ENTERED AT 15:40:12 ON 07 FEB 2006

L3 3 SEA L2
D L3 1-3 BIB,KWIC

FILE 'REGISTRY' ENTERED AT 15:41:39 ON 07 FEB 2006
L4 0 SEA (ASCORBOSILANE C)/CN
L5 0 SEA (ASCORBOSILANE)/CN

FILE 'ADISCTI, ADISINSIGHT, ADISNEWS, BIOSIS, BIOTECHNO, CAPLUS, DDFB, DGENE, DISSABS, DRUGB, DRUGMONOG2, DRUGU, EMBAL, EMBASE, ES BIOBASE, IFIPAT, IMSDRUGNEWS, IMSPRODUCT, IPA, JICST-EPLUS, KOSMET, LIFESCI, MEDLINE, NAPRALERT, NLDB, NUTRACEUT, PASCAL, ...' ENTERED AT 15:42:18 ON 07 FEB 2006

L6 6 SEA ASCORBOSILANE
D L6 1-6 BIB,KWIC

FILE 'ADISCTI, ADISINSIGHT, ADISNEWS, BIOSIS, BIOTECHNO, CAPLUS, DDFB, DGENE, DISSABS, DRUGB, DRUGMONOG2, DRUGU, EMBAL, EMBASE, ES BIOBASE, IFIPAT, IMSDRUGNEWS, IMSPRODUCT, IPA, JICST-EPLUS, KOSMET, LIFESCI, MEDLINE, NAPRALERT, NLDB, NUTRACEUT, PASCAL, ...' ENTERED AT 15:44:02 ON 07 FEB 2006

FILE 'REGISTRY' ENTERED AT 15:44:09 ON 07 FEB 2006
L7 0 SEA (ASCORBYL METHYLSILANOL PECTINATE)/CN
L8 0 SEA ASCORBOSILANE/CN
L9 0 SEA (ASCORBOSILANE C)/CN
L10 0 SEA EXSYMOL

FILE 'CAPLUS, USPATFULL' ENTERED AT 15:46:33 ON 07 FEB 2006
L11 TRA L6 1-1 RN : 6 TERMS

FILE 'REGISTRY' ENTERED AT 15:46:35 ON 07 FEB 2006
L12 TRAN RN L6 1-1 RAN=(ALL)

FILE 'REGISTRY' ENTERED AT 15:46:35 ON 07 FEB 2006
L12 6 SEA L11
D L12 1-6 BIB,HIT STR

FILE 'ADISCTI, ADISINSIGHT, ADISNEWS, BIOSIS, BIOTECHNO, CAPLUS, DDFB, DGENE, DISSABS, DRUGB, DRUGMONOG2, DRUGU, EMBAL, EMBASE, ES BIOBASE, IFIPAT, IMSDRUGNEWS, IMSPRODUCT, IPA, JICST-EPLUS, KOSMET, LIFESCI, MEDLINE, NAPRALERT, NLDB, NUTRACEUT, PASCAL, ...' ENTERED AT 15:47:30 ON 07 FEB 2006

L13 6 SEA L6
L14 3 SEA L13 AND 50-81-7/RN
D L14 1-3 BIB,KWIC

FILE 'REGISTRY' ENTERED AT 15:49:58 ON 07 FEB 2006

L15 1 SEA 18089-54-8/RN
D L15
L16 1 SEA 25265-75-2/RN
D L16
L17 1 SEA 57022-38-5/RN
D L17
L18 1 SEA 78809-92-4/RN
D L18
L19 1 SEA 108910-78-7/RN
D L19
L20 0 SEA L14 AND (ASCORBOSILANE)

FILE 'ADISCTI, ADISINSIGHT, ADISNEWS, BIOSIS, BIOTECHNO, CAPLUS, DDFB, DGENE, DISSABS, DRUGB, DRUGMONOG2, DRUGU, EMBAL, EMBASE, ESBIODBASE, IFIPAT, IMSDRUGNEWS, IMSPRODUCT, IPA, JICST-EPLUS, KOSMET, LIFESCI, MEDLINE, NAPRALERT, NLDB, NUTRACEUT, PASCAL, ...' ENTERED AT 15:53:19 ON 07 FEB 2006

L21 3 SEA L14 AND (ASCORBOSILANE)
D L21 1-3 BIB,KWIC

FILE 'INPADOC' ENTERED AT 15:59:49 ON 07 FEB 2006

L22 1 SEA FR2746008/PN
D L22 FAM
D L22 ALL

FILE HOME

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 6 FEB 2006 HIGHEST RN 873652-66-5
DICTIONARY FILE UPDATES: 6 FEB 2006 HIGHEST RN 873652-66-5

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

FILE ADISCTI

FILE COVERS 1998 TO 3 Feb 2006 (20060203/ED)

FILE LAST UPDATED: 3 FEB 2006 (20060203/ED)

FILE ADISINSIGHT

FILE COVERS 1998 TO 2 Feb 2006 (20060202/ED)
FILE LAST UPDATED: 2 FEB 2006 (20060202/ED)

FILE ADISNEWS

FILE COVERS 1983 TO 7 Feb 2006 (20060207/ED)

This file contains CAS Registry Numbers for easy and accurate
substance identification.

FILE BIOSIS

FILE COVERS 1969 TO DATE.

CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNS) PRESENT
FROM JANUARY 1969 TO DATE.

RECORDS LAST ADDED: 1 February 2006 (20060201/ED)

FILE BIOTECHNO

FILE LAST UPDATED: 7 JAN 2004 <20040107/UP>

FILE COVERS 1980 TO 2003.

>>> BIOTECHNO IS NO LONGER BEING UPDATED AS OF 2004 <<<

>>> SIMULTANEOUS LEFT AND RIGHT TRUNCATION AVAILABLE IN
/CT AND BASIC INDEX <<<

FILE CAPLUS

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for records published or updated in Chemical Abstracts after December
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FILE COVERS 1907 - 7 Feb 2006 VOL 144 ISS 7

FILE LAST UPDATED: 6 Feb 2006 (20060206/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

<http://www.cas.org/infopolicy.html>

FILE DDFB

>>> FILE COVERS 1964 TO 1982 - CLOSED FILE <<<

FILE DGENE

FILE LAST UPDATED: 27 JAN 2006 <20060127/UP>

DGENE CURRENTLY CONTAINS 7,652,925 BIOSEQUENCES

>>> ONLINE THESAURUS AVAILABLE IN /PACO <<<

>>> DOWNLOAD THE DGENE WORKSHOP MANUAL:

http://www.stn-international.de/training_center/bioseq/dgene_wm.pdf

>>> DOWNLOAD COMPLETE DGENE HELP AS PDF:

http://www.stn-international.de/training_center/bioseq/dgene_help.pdf <<

>>> DOWNLOAD DGENE BLAST/GETSIM FREQUENTLY ASKED QUESTIONS:

<http://www.stn-international.de/service/faq/dgenefaq.pdf> <<<

FILE DISSABS

FILE COVERS 1861 TO 26 JAN 2006 (20060126/ED)

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FILE DRUGB

>>> FILE COVERS 1964 TO 1982 - CLOSED FILE <<<

FILE DRUGMONOG2

FILE IS CURRENT THROUGH 9 Dec 2005 (20051209/ED)

```
#####
#
#          !!! ATTENTION !!!
#
# Welcome to DRUGMONOG2. This file is available to all users.
# To access drug pricing information, use DRUGMONOG, accessible
# only to pharmaceutical organizations for reasons of
# confidentiality.
#
# If you already have subscription status on any of the IMSworld#
# files on STN and belong to a pharmaceutical organization, you #
# should automatically have access to DRUGMONOG. If you belong #
# to a pharmaceutical organization and would like to use
# DRUGMONOG, please contact your STN Help Desk. If you do not #
# need pricing information, use DRUMONOG2.
#
# See HELP SUBSCRIPTION for more information.
#####
```

FILE DRUGU

FILE LAST UPDATED: 31 JAN 2006 <20060131/UP>

>>> DERWENT DRUG FILE (SUBSCRIBER) <<<

>>> FILE COVERS 1983 TO DATE <<<

>>> THESAURUS AVAILABLE IN /CT <<<

FILE EMBAL

FILE COVERS CURRENT RECORDS AND IS UPDATED DAILY

FILE LAST UPDATED: 7 FEB 2006 (20060207/ED)

FILE EMBASE

FILE COVERS 1974 TO 2 Feb 2006 (20060202/ED)

EMBASE has been reloaded. Enter HELP RLOAD for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE ESBIOBASE

FILE LAST UPDATED: 7 FEB 2006 <20060207/UP>

FILE COVERS 1994 TO DATE.

>>> SIMULTANEOUS LEFT AND RIGHT TRUNCATION AVAILABLE IN
/CC, /ORGN, AND /ST <<<

FILE IFIPAT

FILE COVERS 1950 TO PATENT PUBLICATION DATE: 2 Feb 2006 (20060202/PD)

FILE LAST UPDATED: 3 Feb 2006 (20060203/ED)

HIGHEST GRANTED PATENT NUMBER: US6993790

HIGHEST APPLICATION PUBLICATION NUMBER: US2006026727

UNITERM INDEXING IS AVAILABLE IN THE IFIUDB FILE

UNITERM INDEXING LAST UPDATED: 6 Feb 2006 (20060206/UP)
INDEXING CURRENT THROUGH PAT PUB DATE: 25 Oct 2005 (20051025/PD)

IFIPAT reloaded on 9/22/05. Enter HELP RLOAD for details.

FILE IMSDRUGNEWS
FILE COVERS 1995 TO 5 Feb 2006 (20060205/ED)

```
#####  
#  
#          !!! ATTENTION !!!  
#  
# Welcome to IMSDRUGNEWS. This is the Drug News file from  
# IMSworld Publications.  
#  
# For detailed information regarding the printed version  
# of this file, please contact IMS HEALTH Customer Services  
# directly by phone at +44(0)20-7393-5888, or email  
# globaldirect@uk.imshealth.com.  
#  
# See HELP SUBSCRIPTION for more information.  
#####
```

This file contains CAS Registry Numbers for easy and accurate
substance identification.

The file name was changed from DRUGNL to IMSDRUGNEWS on 7 Dec. 2003.
The file name DRUGNL is now an alias for IMSDRUGNEWS.

FILE IMSPRODUCT
FILE COVERS 1982 TO 31 Jan 2006 (20060131/ED)

```
#####  
#  
#          !!! ATTENTION !!!  
#  
# Welcome to IMSPRODUCT. A special subscriber rate is  
# available to purchasers of the IMSworld publication,  
# Drug Launches.  
#  
# For detailed information regarding eligibility and  
# authorization for this subscriber discount, please contact  
# IMS HEALTH Customer Services directly by phone  
# at +44(0)20-7393-5888, or email globaldirect@uk.imshealth.com  
# See HELP SUBSCRIPTION for more information.  
#  
#####
```

The file name was changed from DRUGLAUNCH to IMSPRODUCT on 7 Dec. 2003.
The file name DRUGLAUNCH is now an alias for IMSPRODUCT.

FILE IPA
FILE COVERS 1970 TO 31 JAN 2006 (20060131/ED)

This file contains CAS Registry Numbers for easy and accurate
substance identification.

FILE JICST-EPLUS
FILE COVERS 1985 TO 7 FEB 2006 (20060207/ED)

THE JICST-EPLUS FILE HAS BEEN RELOADED TO REFLECT THE 1999 CONTROLLED
TERM (/CT) THESAURUS RELOAD.

FILE KOSMET
FILE LAST UPDATED: 7 FEB 2006 <20060207/UP>
FILE COVERS 1968 TO DATE.

>>> SIMULTANEOUS LEFT AND RIGHT TRUNCATION IS AVAILABLE
IN THE BASIC INDEX (/BI) FIELD <<<

FILE LIFESCI
FILE COVERS 1978 TO 18 Jan 2006 (20060118/ED)

FILE MEDLINE
FILE LAST UPDATED: 4 FEB 2006 (20060204/UP). FILE COVERS 1950 TO DATE.

On December 11, 2005, the 2006 MeSH terms were loaded.

The MEDLINE reload for 2006 will soon be available. For details on the 2005 reload, enter HELP RLOAD at an arrow prompt (=>).
See also:

<http://www.nlm.nih.gov/mesh/>
http://www.nlm.nih.gov/pubs/techbull/nd04/nd04_mesh.html
http://www.nlm.nih.gov/pubs/techbull/nd05/nd05_med_data_changes.html
http://www.nlm.nih.gov/pubs/techbull/nd05/nd05_2006_MeSH.html

OLDMEDLINE is covered back to 1950.

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2006 vocabulary.

This file contains CAS Registry Numbers for easy and accurate

FILE NAPRALERT

FILE COVERS 1650 TO 8 AUG 2005 (20050808/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

The NAPRALERT File is no longer being updated. *****

FILE NLDB
FILE COVERS 1988 TO 7 FEB 2006 (20060207/ED)

FILE NUTRACEUT
FILE LAST UPDATED: 25 JAN 2006 <20060125/UP>
FILE COVERS MAY 1996 TO DATE

FILE PASCAL
FILE LAST UPDATED: 6 FEB 2006 <20060206/UP>
FILE COVERS 1977 TO DATE.

>>> SIMULTANEOUS LEFT AND RIGHT TRUNCATION IS AVAILABLE
IN THE BASIC INDEX (/BI) FIELD <<<

FILE PCTGEN
FILE LAST UPDATED: 2 FEB 2006 <20060202/UP>
MOST RECENT PCT PUB DATE: 2 FEB 2006 <20060202/PD>

PCTGEN CURRENTLY CONTAINS 4,425,785 BIOSEQUENCES

>>> DOWNLOAD THE PCTGEN WORKSHOP MANUAL:
http://www.stn-international.de/training_center/bioseq/pctgen_wm.pdf

>>> DOWNLOAD COMPLETE PCTGEN HELP AS PDF:
http://www.stn-international.de/training_center/bioseq/pctgen_help.pdf

>>> DOWNLOAD RUN BLAST/GETSIM FREQUENTLY ASKED QUESTIONS:
<http://www.stn-international.de/service/faq/dgenefaq.pdf> <<<

FILE PHARMAML
FILE LAST UPDATED: 7 FEB 2006 <20060207/UP>
FILE COVERS 1992 TO DATE

<<< DISPLAY PRICES FOR THE MOST CURRENT 4-WEEKS INFORMATION

DIFFER FROM THE PREVIOUS ONES ==> see HELP COST >>>

FILE PHIC

FILE COVERS CURRENT RECORDS AND IS UPDATED DAILY
FILE LAST UPDATED: 7 FEB 2006 (20060207/ED)

FILE PHIN

FILE COVERS 1980 TO 3 FEB 2006 (20060203/ED)

FILE SCISEARCH

FILE COVERS 1974 TO 2 Feb 2006 (20060202/ED)

SCISEARCH has been reloaded, see HELP RLOAD for details.

FILE TOXCENTER

FILE COVERS 1907 TO 7 Feb 2006 (20060207/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TOXCENTER has been enhanced with new files segments and search fields.
See HELP CONTENT for more information.

TOXCENTER thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2006 vocabulary.

See <http://www.nlm.nih.gov/mesh/>

http://www.nlm.nih.gov/pubs/techbull/nd05/nd05_med_data_changes.html

http://www.nlm.nih.gov/pubs/techbull/nd05/nd05_2006_MeSH.html

for a description of changes.

FILE USPATFULL

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 7 Feb 2006 (20060207/PD)

FILE LAST UPDATED: 7 Feb 2006 (20060207/ED)

HIGHEST GRANTED PATENT NUMBER: US6996845

HIGHEST APPLICATION PUBLICATION NUMBER: US2006026727

CA INDEXING IS CURRENT THROUGH 7 Feb 2006 (20060207/UPCA)

ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 7 Feb 2006 (20060207/PD)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Dec 2005

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Dec 2005

FILE USPAT2

FILE COVERS 2001 TO PUBLICATION DATE: 7 Feb 2006 (20060207/PD)

FILE LAST UPDATED: 7 Feb 2006 (20060207/ED)

HIGHEST GRANTED PATENT NUMBER: US2005126892

HIGHEST APPLICATION PUBLICATION NUMBER: US2006025907

CA INDEXING IS CURRENT THROUGH 7 Feb 2006 (20060207/UPCA)

ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 7 Feb 2006 (20060207/PD)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Dec 2005

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Dec 2005

FILE INPADOC

FILE LAST UPDATED: 2 FEB 2006 <20060202/UP>

2 FEB 2006 <20060202/UPLS>

MOST RECENT INPADOC WEEK: 200605 <200605/EW>

FILE COVERS 1968 TO DATE.

>>> FOR STATISTIC OF CURRENT WEEK'S NEW ENTRIES,
ENTER HELP UPS <<<

>>> STATISTIC FOR UPDATES OF PUBLICATION/PATENT KIND CODES

A. SORTED BY COUNTRY:

<http://www.stn-international.de/stndatabases/details/inpadoc/fkd1>

B. SORTED BY DATE:

<http://www.stn-international.de/stndatabases/details/inpadoc/fkd2> <<<

>>> PLEASE BE AWARE OF THE NEW IPC REFORM IN 2006, SEE

http://www.stn-international.de/stndatabases/details/ipc_reform.html <<<

>>> NEW IPC8 SEARCH, DISPLAY, AND SELECT ENHANCEMENTS ! --> SEE NEWS <<<

>>> FOR CHANGES IN INPADOC SEE HELP CHANGE (last updated January 10, 2006)

>>> THE PRODUCER (EPO) INFORMED US THAT THERE WILL BE A DELAY WITH
WO DATA DUE TO INPUT FORMAT CHANGES AT THE WIPO <<<

=>

First Hit

L10: Entry 1 of 5

File: PGPB

Dec 22, 2005

DOCUMENT-IDENTIFIER: US 20050281766 A1

TITLE: Method of improving the aesthetic appearance of epithelia

Summary of Invention Paragraph:

[0012] U.S. Pat. No. 5,124,313 provides topical compositions having a retinyl ester-polypeptide complex, specifically a retinyl palmitate-polypeptide complex.

First Hit Fwd Refs

End of Result Set

L10: Entry 5 of 5

File: USPT

Jun 23, 1992

DOCUMENT-IDENTIFIER: US 5124313 A

TITLE: Methods of improved skin care and the treatment of dermatological conditions

Abstract Text (1):

The present invention provides methods for treating or preventing various dermatological conditions in humans, such as dry, cracked or damaged skin resulting from exposure to sunlight (ultraviolet radiation) and wind, aging effects, general skin dryness, e.g., deficient moisture content, and mild acne. These methods comprise applying an effective amount of a composition to the affected target area, the composition comprising a retinyl palmitate-polypeptide complex of apparent molecular weight of from about 5,000 to about 7,000 daltons, and an isoprenoid compound, e.g., a carotenoid such as beta-carotene.

Brief Summary Text (2):

The present invention relates to methods of improved skin care and the treatment and/or prevention of various human dermatological conditions by applying to the skin or the involved mucous membranes an effective amount of a composition comprising retinyl palmitate polypeptide complex and a isoprenoid. The dermatological conditions include skin damage due to sun (ultraviolet light), wind and general climatic exposure, aging effects (facial lines), excessive dryness and mild acne.

Brief Summary Text (12):

The present inventors have discovered that topical products comprising an effective amount of a composition comprising a retinyl palmitate polypeptide complex and an isoprenoid can be applied to the skin, mucous membranes, lips, hair and nails resulting in general improvement of numerous conditions. These conditions include skin damage due to sun (ultraviolet light), wind and general climatic exposure, aging effects (facial lines), excessive dryness and mild acne.

Detailed Description Text (3):

The present invention provides a number of methods for treating and/or preventing human dermatological conditions, all of which comprise applying to the skin or mucous membrane area an effective amount of a composition comprising retinyl palmitate polypeptide complex and an isoprenoid in a suitable vehicle. The amount of this composition is effective to treat or prevent the various dermatological conditions which will now be discussed.

Detailed Description Text (16):

The retinyl palmitate-polypeptide complex (RPPC) is a solid substance having a yellow to light orange color and a slight carrot odor. It is dispersible, but only partially soluble in water, and is partially soluble in alcohol, acetone and other organic solvents. The RPPC contains a low level of essential fatty acids (approximately 2.5% by weight), lipoproteins and carbohydrates as well as some protein-bound betacarotene. The moisture content of the RPPC is no greater than about 7.0% by weight. Following alkaline hydrolysis and using the USP assay for retinol, RPPC typically shows an activity of not less than about 250,000 i.u. per gram.

Detailed Description Text (17):

Under these above-described conditions, an impure retinyl palmitate-polypeptide complex (RPPC) is obtained which consists of approximately 25%, by weight, of retinyl palmitate (or about 250,000 i.u. per gram) and approximately 60%, by weight, of polypeptide carrier (PC). which, in addition, contains bound water, lipoproteins, carbohydrates and other impurities. The binding site between the PC and the retinyl palmitate appears to be the ester carbonyl group of the retinyl palmitate where hydrogen bonding takes place. The molecular weight of the polypeptide complex is approximately 5,000 to about 7,000 daltons, i.e., less than the molecular weight of CRBP. Polypeptides of this size can be absorbed through the skin when topically applied.

Detailed Description Text (18):

It should be understood that the molecular weight of the retinyl palmitate-polypeptide complex may vary within a certain range due to the fact that the product is derived from natural sources which are variable themselves. However, in most instances, the molecular weight of, the retinyl palmitate-polypeptide complex (RPPC) will comprise from about 5,000 to about 7,000 daltons, although as stated above, this range may vary.

Detailed Description Text (22):

The compositions, RPPC, used in accordance with the methods provided by this invention are employed in effective amounts to function as an effective skin care material as well as to treat or prevent the above-described dermatological conditions. The amount of retinyl palmitate polypeptide complex may range from about 0.02 to about 5.0% by weight, preferably from about 0.2 to about 2.0%, by weight. The amount of the isoprenoid may range from about 0.01 to about 1.5%, by weight, preferably from about 0.1 to about 0.5%, by weight, of the total RPPC composition.

Detailed Description Text (47):

In contrast to retinyl palmitate, which displays strong hydrophobicity, and a physical gelatin-retinyl palmitate blend (beads) which shows hydrophilicity, but is strongly hydrophobic, the retinyl palmitate-polypeptide complex exhibits good hydrophilic properties especially at increasing temperatures as well as adequate lipophilicity.

Detailed Description Text (51):

A standard skin stripping procedure was conducted on 10 volunteers, comparing RPPC with retinyl palmitate oil, formulated in an emulsion base. The purpose of the study was to compare the topical absorption properties of retinyl palmitate (Roche Laboratories, Nutley, N.J.) - RP - with retinyl palmitate polypeptide (Brooks Vitazyme.TM.A, South Plainfield, N.J.) i.e., RPPC.

Detailed Description Paragraph Table (2):

	Retinyl palmitate, USP (RP) Potency: 1.5 MM i.u./Gm
Retinyl palmitate gelatin beads	Potency: 500,000 i.u./Gm (RPG)
<u>Retinyl palmitate polypeptide</u>	Potency: 250,000 i.u./Gm (RPPC) (Vitazyme .TM. A, Brooks Industries, Inc., South Plainfield, New Jersey)

=> s (nicotinamide or niacinamide or nicovit or niocinamide) (w) polypeptide

29 FILES SEARCHED...

L9 0 (NICOTINAMIDE OR NIACINAMIDE OR NICOVIT OR NIOCINAMIDE) (W)
POLYPEPTIDE

=> d his full

(FILE 'HOME' ENTERED AT 16:22:33 ON 07 FEB 2006)

FILE 'REGISTRY' ENTERED AT 16:22:44 ON 07 FEB 2006

L1 1 SEA NIACINAMIDE/CN

D L1

L2 0 SEA (NIACINAMIDE POLYPEPTIDE)/CN

FILE 'ADISCTI, ADISINSIGHT, ADISNEWS, BIOSIS, BIOTECHNO, CAPLUS, DDFB,
DGENE, DISSABS, DRUGB, DRUGMONOG2, DRUGU, EMBAL, EMBASE, ESBIODBASE,
IFIPAT, IMSDRUGNEWS, IMSPRODUCT, IPA, JICST-EPLUS, KOSMET, LIFESCI,
MEDLINE, NAPRALERT, NLDB, NUTRACEUT, PASCAL, ...' ENTERED AT 16:23:38 ON
07 FEB 2006

L3 0 SEA (NIACINAMIDE (W) POLYPEPTIDE)

L4 0 SEA (NICOTINAMIDE (W) POLYPEPTIDE)

L5 0 SEA (NICOTYLAMIDE (W) POLYPEPTIDE)

L6 1546 SEA (NICOTINAMIDE OR NIACINAMIDE OR NICOVIT OR NIOCINAMIDE)
(P) POLYPEPTIDE

L7 997 DUP REM L6 (549 DUPLICATES REMOVED)

L8 186 SEA L7 AND PD<2001

D L8 1-10 KWIC

L9 0 SEA (NICOTINAMIDE OR NIACINAMIDE OR NICOVIT OR NIOCINAMIDE)
(W) POLYPEPTIDE

FILE HOME

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 6 FEB 2006 HIGHEST RN 873652-66-5

DICTIONARY FILE UPDATES: 6 FEB 2006 HIGHEST RN 873652-66-5

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Structure search iteration limits have been increased. See HELP SLIMITS
for details.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

FILE ADISCTI

FILE COVERS 1998 TO 3 Feb 2006 (20060203/ED)

FILE LAST UPDATED: 3 FEB 2006 (20060203/ED)

FILE ADISINSIGHT

FILE COVERS 1998 TO 2 Feb 2006 (20060202/ED)

FILE LAST UPDATED: 2 FEB 2006 (20060202/ED)

FILE ADISNEWS

FILE COVERS 1983 TO 7 Feb 2006 (20060207/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE BIOSIS

FILE COVERS 1969 TO DATE.

CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT FROM JANUARY 1969 TO DATE.

RECORDS LAST ADDED: 1 February 2006 (20060201/ED)

FILE BIOTECHNO

FILE LAST UPDATED: 7 JAN 2004 <20040107/UP>

FILE COVERS 1980 TO 2003.

>>> BIOTECHNO IS NO LONGER BEING UPDATED AS OF 2004 <<<

>>> SIMULTANEOUS LEFT AND RIGHT TRUNCATION AVAILABLE IN /CT AND BASIC INDEX <<<

FILE CAPLUS

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FILE COVERS 1907 - 7 Feb 2006 VOL 144 ISS 7

FILE LAST UPDATED: 6 Feb 2006 (20060206/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

FILE DDFB

>>> FILE COVERS 1964 TO 1982 - CLOSED FILE <<<

FILE DGENE

FILE LAST UPDATED: 27 JAN 2006 <20060127/UP>

DGENE CURRENTLY CONTAINS 7,652,925 BIOSEQUENCES

>>> ONLINE THESAURUS AVAILABLE IN /PACO <<<

>>> DOWNLOAD THE DGENE WORKSHOP MANUAL:

http://www.stn-international.de/training_center/bioseq/dgene_wm.pdf

>>> DOWNLOAD COMPLETE DGENE HELP AS PDF:

http://www.stn-international.de/training_center/bioseq/dgene_help.pdf <<

>>> DOWNLOAD DGENE BLAST/GETSIM FREQUENTLY ASKED QUESTIONS:
http://www.stn-international.de/service/faq/dgenefaq.pdf <<<

FILE DISSABS

FILE COVERS 1861 TO 26 JAN 2006 (20060126/ED)

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FILE DRUGB

>>> FILE COVERS 1964 TO 1982 - CLOSED FILE <<<

FILE DRUGMONOG2

FILE IS CURRENT THROUGH 9 Dec 2005 (20051209/ED)

```
#####
#                                     #
#             !!! ATTENTION !!!      #
#                                     #
# Welcome to DRUGMONOG2. This file is available to all users. #
# To access drug pricing information, use DRUGMONOG, accessible #
# only to pharmaceutical organizations for reasons of         #
# confidentiality.                                           #
#                                     #
# If you already have subscription status on any of the IMSworld#
# files on STN and belong to a pharmaceutical organization, you #
# should automatically have access to DRUGMONOG. If you belong #
# to a pharmaceutical organization and would like to use      #
# DRUGMONOG, please contact your STN Help Desk. If you do not #
# need pricing information, use DRUMONOG2.                   #
#                                     #
# See HELP SUBSCRIPTION for more information.                #
#####
```

FILE DRUGU

FILE LAST UPDATED: 31 JAN 2006 <20060131/UP>

>>> DERWENT DRUG FILE (SUBSCRIBER) <<<

>>> FILE COVERS 1983 TO DATE <<<

>>> THESAURUS AVAILABLE IN /CT <<<

FILE EMBAL

FILE COVERS CURRENT RECORDS AND IS UPDATED DAILY

FILE LAST UPDATED: 7 FEB 2006 (20060207/ED)

FILE EMBASE

FILE COVERS 1974 TO 2 Feb 2006 (20060202/ED)

EMBASE has been reloaded. Enter HELP RLOAD for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE ESBIODBASE

FILE LAST UPDATED: 7 FEB 2006 <20060207/UP>

FILE COVERS 1994 TO DATE.

>>> SIMULTANEOUS LEFT AND RIGHT TRUNCATION AVAILABLE IN
/CC, /ORGN, AND /ST <<<

FILE IFIPAT
FILE COVERS 1950 TO PATENT PUBLICATION DATE: 2 Feb 2006 (20060202/PD)
FILE LAST UPDATED: 3 Feb 2006 (20060203/ED)
HIGHEST GRANTED PATENT NUMBER: US6993790
HIGHEST APPLICATION PUBLICATION NUMBER: US2006026727
UNITERM INDEXING IS AVAILABLE IN THE IFIUDB FILE
UNITERM INDEXING LAST UPDATED: 6 Feb 2006 (20060206/UP)
INDEXING CURRENT THROUGH PAT PUB DATE: 25 Oct 2005 (20051025/PD)

IFIPAT reloaded on 9/22/05. Enter HELP RLOAD for details.

FILE IMSDRUGNEWS
FILE COVERS 1995 TO 5 Feb 2006 (20060205/ED)

```
#####  
#                                     #  
#             !!! ATTENTION !!!      #  
#                                     #  
# Welcome to IMSDRUGNEWS. This is the Drug News file from #  
# IMSworld Publications.             #  
#                                     #  
# For detailed information regarding the printed version #  
# of this file, please contact IMS HEALTH Customer Services #  
# directly by phone at +44(0)20-7393-5888, or email        #  
# globaldirect@uk.imshealth.com.      #  
#                                     #  
# See HELP SUBSCRIPTION for more information.              #  
#####
```

This file contains CAS Registry Numbers for easy and accurate substance identification.

The file name was changed from DRUGNL to IMSDRUGNEWS on 7 Dec. 2003.
The file name DRUGNL is now an alias for IMSDRUGNEWS.

FILE IMSPRODUCT
FILE COVERS 1982 TO 31 Jan 2006 (20060131/ED)

```
#####  
#                                     #  
#             !!! ATTENTION !!!      #  
#                                     #  
# Welcome to IMSPRODUCT. A special subscriber rate is    #  
# available to purchasers of the IMSworld publication,    #  
# Drug Launches.                                          #  
#                                     #  
# For detailed information regarding eligibility and      #  
# authorization for this subscriber discount, please contact #  
# IMS HEALTH Customer Services directly by phone          #  
# at +44(0)20-7393-5888, or email globaldirect@uk.imshealth.com #  
# See HELP SUBSCRIPTION for more information.              #  
#                                     #  
#####
```

The file name was changed from DRUGLAUNCH to IMSPRODUCT on 7 Dec. 2003.
The file name DRUGLAUNCH is now an alias for IMSPRODUCT.

FILE IPA
FILE COVERS 1970 TO 31 JAN 2006 (20060131/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE JICST-EPLUS
FILE COVERS 1985 TO 7 FEB 2006 (20060207/ED)

THE JICST-EPLUS FILE HAS BEEN RELOADED TO REFLECT THE 1999 CONTROLLED TERM (/CT) THESAURUS RELOAD.

FILE KOSMET
FILE LAST UPDATED: 7 FEB 2006 <20060207/UP>
FILE COVERS 1968 TO DATE.

>>> SIMULTANEOUS LEFT AND RIGHT TRUNCATION IS AVAILABLE
IN THE BASIC INDEX (/BI) FIELD <<<

FILE LIFESCI
FILE COVERS 1978 TO 18 Jan 2006 (20060118/ED)

FILE MEDLINE
FILE LAST UPDATED: 4 FEB 2006 (20060204/UP). FILE COVERS 1950 TO DATE.

On December 11, 2005, the 2006 MeSH terms were loaded.

The MEDLINE reload for 2006 will soon be available. For details
on the 2005 reload, enter HELP RLOAD at an arrow prompt (=>).
See also:

<http://www.nlm.nih.gov/mesh/>
http://www.nlm.nih.gov/pubs/techbull/nd04/nd04_mesh.html
http://www.nlm.nih.gov/pubs/techbull/nd05/nd05_med_data_changes.html
http://www.nlm.nih.gov/pubs/techbull/nd05/nd05_2006_MeSH.html

OLDMEDLINE is covered back to 1950.

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the
MeSH 2006 vocabulary.

This file contains CAS Registry Numbers for easy and accurate

FILE NAPRALERT

FILE COVERS 1650 TO 8 AUG 2005 (20050808/ED)

This file contains CAS Registry Numbers for easy and accurate
substance identification.

The NAPRALERT File is no longer being updated. *****

FILE NLDB
FILE COVERS 1988 TO 7 FEB 2006 (20060207/ED)

FILE NUTRACEUT
FILE LAST UPDATED: 25 JAN 2006 <20060125/UP>
FILE COVERS MAY 1996 TO DATE

FILE PASCAL
FILE LAST UPDATED: 6 FEB 2006 <20060206/UP>
FILE COVERS 1977 TO DATE.

>>> SIMULTANEOUS LEFT AND RIGHT TRUNCATION IS AVAILABLE
IN THE BASIC INDEX (/BI) FIELD <<<

FILE PCTGEN
FILE LAST UPDATED: 2 FEB 2006 <20060202/UP>
MOST RECENT PCT PUB DATE: 2 FEB 2006 <20060202/PD>

PCTGEN CURRENTLY CONTAINS 4,425,785 BIOSEQUENCES

>>> DOWNLOAD THE PCTGEN WORKSHOP MANUAL:
http://www.stn-international.de/training_center/bioseq/pctgen_wm.pdf

>>> DOWNLOAD COMPLETE PCTGEN HELP AS PDF:
http://www.stn-international.de/training_center/bioseq/pctgen_help.pdf

>>> DOWNLOAD RUN BLAST/GETSIM FREQUENTLY ASKED QUESTIONS:
<http://www.stn-international.de/service/faq/dgenefaq.pdf> <<<

FILE PHARMAML
FILE LAST UPDATED: 7 FEB 2006 <20060207/UP>
FILE COVERS 1992 TO DATE

<<< DISPLAY PRICES FOR THE MOST CURRENT 4-WEEKS INFORMATION
DIFFER FROM THE PREVIOUS ONES ==> see HELP COST >>>

FILE PHIC
FILE COVERS CURRENT RECORDS AND IS UPDATED DAILY
FILE LAST UPDATED: 7 FEB 2006 (20060207/ED)

FILE PHIN
FILE COVERS 1980 TO 3 FEB 2006 (20060203/ED)

FILE SCISEARCH

FILE COVERS 1974 TO 2 Feb 2006 (20060202/ED)

SCISEARCH has been reloaded, see HELP RLOAD for details.

FILE TOXCENTER

FILE COVERS 1907 TO 7 Feb 2006 (20060207/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TOXCENTER has been enhanced with new files segments and search fields.
See HELP CONTENT for more information.

TOXCENTER thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2006 vocabulary.

See <http://www.nlm.nih.gov/mesh/>
http://www.nlm.nih.gov/pubs/techbull/nd05/nd05_med_data_changes.html
http://www.nlm.nih.gov/pubs/techbull/nd05/nd05_2006_MeSH.html
for a description of changes.

FILE USPATFULL
FILE COVERS 1971 TO PATENT PUBLICATION DATE: 7 Feb 2006 (20060207/PD)
FILE LAST UPDATED: 7 Feb 2006 (20060207/ED)
HIGHEST GRANTED PATENT NUMBER: US6996845
HIGHEST APPLICATION PUBLICATION NUMBER: US2006026727
CA INDEXING IS CURRENT THROUGH 7 Feb 2006 (20060207/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 7 Feb 2006 (20060207/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Dec 2005
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Dec 2005

FILE USPAT2

FILE COVERS 2001 TO PUBLICATION DATE: 7 Feb 2006 (20060207/PD)
FILE LAST UPDATED: 7 Feb 2006 (20060207/ED)
HIGHEST GRANTED PATENT NUMBER: US2005126892
HIGHEST APPLICATION PUBLICATION NUMBER: US2006025907
CA INDEXING IS CURRENT THROUGH 7 Feb 2006 (20060207/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 7 Feb 2006 (20060207/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Dec 2005
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Dec 2005

L12 ANSWER 1 OF 2 USPATFULL on STN
AN 2005:270526 USPATFULL
TI Linkage of agents to body tissue using microparticles and
transglutaminase
IN Green, Howard, Brookline, MA, UNITED STATES
Compton, Bruce J., Lexington, MA, UNITED STATES
Corey, George D., Newton, MA, UNITED STATES
Djian, Philippe, Paris, FRANCE
PA Pericor Science, Inc., Boston, MA, UNITED STATES (U.S. corporation)
PI US 6958148 B1 20051025
AI US 2000-620783 20000721 (9)
RLI Continuation-in-part of Ser. No. US 1999-359920, filed on 22 Jul 1999,
PENDING Continuation-in-part of Ser. No. US 1999-234358, filed on 20 Jan
1999, Pat. No. US 6267957
PRAI US 1998-71908P 19980120 (60)
DT Utility
FS GRANTED
EXNAM Primary Examiner: Naff, David M.
LREP Wolf, Greenfield & Sacks, P.C.
CLMN Number of Claims: 39
ECL Exemplary Claim: 1
DRWN 1 Drawing Figure(s); 1 Drawing Page(s)
LN.CNT 4173
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
DETD . . . Crosspolymer; Cetearyl Isononanoate; Cetearyl Octanoate;
Cetearyl Palmitate; Cetyl Betaine; Cetyl Glycol; Cetyl
Pyrrolidonylmethyl Dimonium Chloride; Cetyl Triethylammonium Dimethicone
Copolyol Phthalate; **Cholecalciferol Polypeptide**;
Cocamidoethyl Betaine; Cocamidopropylamine Oxide; Cocamidopropyl Amine
Oxide; Cocamidopropyl Betaine; Cocamidopropyl Dimethylamine
Dihydroxymethylpropionate; Cocamidopropyl Dimethylamine Hydrolyzed
Collagen; Cocamidopropyl Dimethylamine Lactate; Cocamidopropyl. . .
DETD . . . ceresin; cetethyl morpholinium ethosulfate; cetethyldimonium
bromide; cetrimonium methosulfate; cetrimonium saccharinate; cetrimonium
tosylate; cetyl betaine; cetyl pyrrolidonylmethyl dimonium chloride;
cetylpyridinium chloride; **cholecalciferol polypeptide**
; cocamidopropyl dimethylamine; cocamidopropyl dimethylamine hydrolyzed
collagen; cocamidopropyl dimethylamine propionate; cocamidopropyl
dimethylaminohydroxypropyl hydrolyzed collagen; cocamidopropyl
dimethylammonium C8-16 isoalkylsuccinyl lactoglobulin sulfonate;
cocamidopropyl. . .

L12 ANSWER 2 OF 2 USPATFULL on STN
AN 2005:179474 USPATFULL
TI Conjugates of agents and transglutaminase substrate linking molecules
IN Green, Howard, Brookline, MA, UNITED STATES
Compton, Bruce, Lexington, MA, UNITED STATES
Corey, George, Newton, MA, UNITED STATES
Djian, Philippe, Paris, FRANCE
PA Pericor Science, Inc., Boston, MA, UNITED STATES (U.S. corporation)
PI US 6919076 B1 20050719
AI US 1999-359920 19990722 (9)
RLI Continuation-in-part of Ser. No. US 1999-234358, filed on 20 Jan 1999,
Pat. No. US 6267957
PRAI US 1998-71908P 19980120 (60)
DT Utility
FS GRANTED
EXNAM Primary Examiner: Naff, David M.
LREP Wolf, Greenfield & Sacks, P.C.
CLMN Number of Claims: 32
ECL Exemplary Claim: 1
DRWN 3 Drawing Figure(s); 2 Drawing Page(s)
LN.CNT 3590
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
DETD . . . Crosspolymer; Cetearyl Isononanoate; Cetearyl Octanoate;
Cetearyl Palmitate; Cetyl Betaine; Cetyl Glycol; Cetyl
Pyrrolidonylmethyl Dimonium Chloride; Cetyl Triethylammonium Dimethicone
Copolyol Phthalate; **Cholecalciferol Polypeptide**;

Cocamidoethyl Betaine; Cocamidopropylamine Oxide; Cocamidopropyl Amine Oxide; Cocamidopropyl Betaine; Cocamidopropyl Dimethylamine Dihydroxymethylpropionate; Cocamidopropyl Dimethylamine Hydrolyzed Collagen; Cocamidopropyl Dimethylamine Lactate; Cocamidopropyl. . . .
DETD ceresin; cetethyl morpholinium ethosulfate; cetethyldimonium bromide; cetrimonium methosulfate; cetrimonium saccharinate; cetrimonium tosylate; cetyl betaine; cetyl pyrrolidonylmethyl dimonium chloride; cetylpyridinium chloride; **cholecalciferol polypeptide** ; cocamidopropyl dimethylamine; cocamidopropyl dimethylamine hydrolyzed collagen; cocamidopropyl dimethylamine propionate; cocamidopropyl dimethylaminohydroxypropyl hydrolyzed collagen; cocamidopropyl dimethylammonium C8-16 isoalkylsuccinyl lactoglobulin sulfonate; cocamidopropyl. . . .

=>

L13 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN
RN 67-97-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN 9,10-Secocholesta-5,7,10(19)-trien-3-ol, (3 β ,5Z,7E)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Cholecalciferol (8CI)

OTHER NAMES:

CN 9,10-Secocholesta-5,7,10(19)-trien-3 β -ol

CN Arachitol

CN Calciol

CN Colecalciferol

CN D3-Vigantol

CN Delsterol

CN Deparal

CN Devaron

CN FeraCol

CN Granuvit D3

CN NSC 375571

CN Oleovitamin D3

CN Quintox

CN Ricketon

CN Trivitan

CN Vi-De3

CN Videkhol

CN Vigorsan

CN Vitamin D3

CN Vitinc Dan-Dee-3

FS STEREOSEARCH

DR 8024-19-9, 8050-67-7

MF C27 H44 O

CI COM

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CABA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHM, CSNB, DDFU, DETHERM*, DIOGENES, DRUGU, EMBASE, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PROMT, PS, RTECS*, SCISEARCH, SPECINFO, SYNTHLINE, TOXCENTER, USAN, USPAT2, USPATFULL, VETU

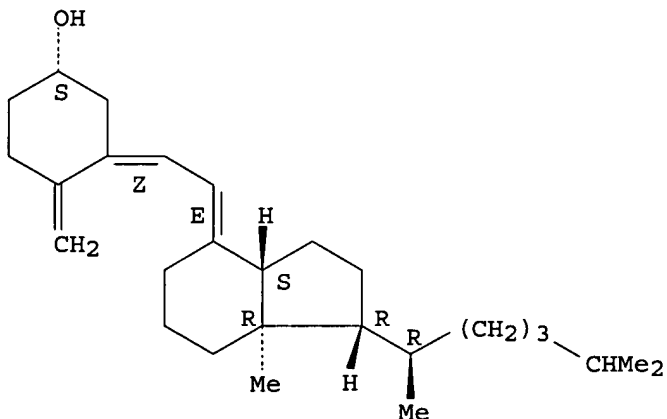
(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**, WHO

(**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5710 REFERENCES IN FILE CA (1907 TO DATE)

528 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

5718 REFERENCES IN FILE CAPLUS (1907 TO DATE)

5 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=>

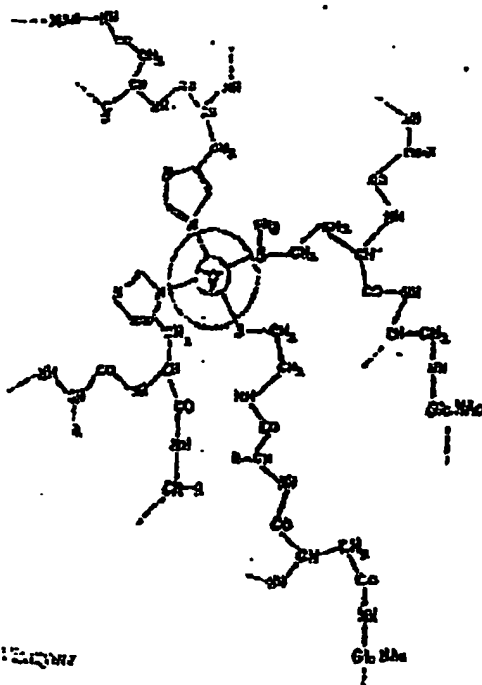
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VITAZYMES® Protein Bonded Vitamins

Brooks Industries, Inc., offers a wide variety of natural protein complex vitamins, called VITAZYMES®. VITAZYMES are manufactured by taking natural GRAS plant derived protein substances which are known for their natural vitamin content. These substrates are complexed with a measurable level of GRAS vitamin until a stable reaction product is reached. VITAZYMES offer a safe delivery system for cosmetic vitamins. They are used in various skin care formulations for the delivery of vitamins to the skin.



Man = Menthane

GlcNAc = N-acetylglucosamine

V = Vitamin

1 - Glycidyl structure representing a VITAZYMES

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